PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORIT	Ϋ́			REC'D	1 2	2 A	APR 2005
To:			DC	WIPO			PCT
Axis Intellectual Capital Pte Ltd 21A Duxton Road Singapore 089487 Republic of Singapore		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)					
		Date of mailing	ብ ን ADD 20				· · · · · · · · · · · · · · · · · · ·
Applicant's or agent's file reference A*/I2R-P032WO		(day/month/year) 0 7 APR 2005 . FOR FURTHER ACTION See paragraph 2 below					
International application No. PCT/SG2005/000014	International filing date 20 January 2005	Priority date (day/month/year) 26 January 2004					
International Patent Classification (IPC) or Int. Cl. H01Q 1/52, 1/36, 1/38	both national classifica	tion and IPC					,
Applicant AGENCY FOR SCIENCE, TECI	HNOLOGY AND R	ESEARCH et al	· · · · · · · · · · · · · · · · · · ·				
1. This opinion contains indications relating to the following items: X							
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.							
3. For further details, see notes to Form PCT/ISA/220.							
Name and mailing address of the IPEA/AU		Authorized Officer					
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2005/000014

Box	No. I	Basis of the opinion
1.		d to the language, this opinion has been established on the basis of the international application in the language in as filed, unless otherwise indicated under this item.
	the fol	opinion has been established on the basis of a translation from the original language into llowing language , which is the language of a translation furnished for the purposes of ational search (under Rules 12.3 and 23.1(b)).
2.		I to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the vention, this opinion has been established on the basis of:
	a. type of	material .
	a	sequence listing
	ta	able(s) related to the sequence listing
	b. format of	of material
		n written format
	<u> </u>	n computer readable form
	c. time of	filing/furnishing
	<u></u>	ontained in the international application as filed.
		iled together with the international application in computer readable form. urnished subsequently to this Authority for the purposes of search.
	<u></u>	
3.	filed o	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional	comments:
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Statement		
Novelty (N)	Claims 4, 12	YES
	Claims 1-3, 5-11, 13-16	NO
Inventive step (IS)	Claims 4, 12	YES
	Claims 1-3, 5-11, 13-16	NO
Industrial applicability (IA)	Claims 1-16	YES
	Claims	NO

2. Citations and explanations:

NOVELTY & INVENTIVE STEP Claims 1-16:

The invention defined in independent claims 1 and 9 lacks novelty and an inventive step in the light of the disclosure in US 5995055 A (MILROY) 30 November 1999, in particular see Figs 6 and 7 and the corresponding description. Excepting appended claims 4 and 12, which talk about the relationship between the inter-element spacing and the lateral spacing, the other claims recite trivial shape and construction features of the antenna elements that would have been obvious to a skilled addressee. Therefore, with the exceptions of claims 4 and 12, the invention lacks novelty and an inventive step.

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Box No. VIII	Certain observations on the international application
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The sup	e following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully oported by the description, are made:
1.	The independent claims are not fully supported by the description in that they do not recite that the first and the second ground conductors are continuous. A continuous ground conductor substrate is noticed in all the embodiments, and no other possible variation or disposition of ground conductors is described in the specification. It is noticed that this limitation is only introduced in appended claims 3 and 11.
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